

08/28/03  
13049 U.S. PTO

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### UTILITY PATENT APPLICATION TRANSMITTAL

#### MAIL STOP PATENT APPLICATION

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

Customer No. 23696

Attorney Docket No.: 020306

Date: August 28, 2003

Express Mail Label No.: EL 977101138 US

03913 U.S. PTO  
10/650272  
08/28/03

Dear Sir:

Transmitted herewith for filing is the patent application of:

Inventor(s): Haitao Zhang

For: METHOD AND APPARATUS FOR IMPROVING CHANNEL ESTIMATE BASED ON SHORT SYNCHRONIZATION CODE.

Enclosed are:

1. ☒ Patent application (36) total pages.
2. ☒ Drawings: ☒ Formal (9) sheet(s) or ☐ Informal ( ) sheet(s).
3. ☒ Declaration/Power of Attorney: ☒ Signed ☐ Unsigned
4. ☐ This application claims priority from Application Serial No. , Filed , Status .
5. ☒ An Assignment (1) page and Recordation Form Cover Sheet.
6. ☐ A Preliminary Amendment ( ) pages.
7. ☐ Information Disclosure Statement (IDS):
  - a. ☐ PTO-1449
  - b. ☐ Copies of IDS Citations (number of citations: )
8. ☐ Other:

| CLAIMS:  | (a) Filed | (b) Extra Claims | Large Entity Fee | Fee Paid   |
|--|-----------|------------------|------------------|------------|
| Total*   | 57 - 20   | 37               | x \$18 =         | \$666.00   |
| Independent**  | 3 - 3     | 0                | x \$84 =         | \$0        |
| Multiple Dependent Claim(s): <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes |           |                  | \$280            | \$0        |
| APPLICATION FILING FEE   |           |                  | \$750            | \$750.00   |
|  |           |                  | TOTAL FEE        | \$1,416.00 |

\*If the number in column a is less than 20, enter 0 in column b.

\*\*If the number in column b is less than 3, enter 0 in column b.

9. ☐ A check in the amount of \$\_\_\_\_\_ is enclosed to pay the filing fee.
10. ☒ Please charge Deposit Account No. 17-0026 of QUALCOMM Incorporated the amount of \$1,416.00. The Commissioner is hereby authorized to charge payment of any additional fees which may be required, or credit any overpayment, to said Deposit Account No. 17-0026. A duplicate of this sheet is enclosed for fee processing.
11. ☒ The Commissioner is further hereby authorized to charge to said Deposit Account No. 17-0026, pursuant to 37 CFR 1.25(b), any fee whatsoever which may become properly due or payable, as set forth in 37 CFR 1.16 to 37 CFR 1.18 inclusive, for the entire pendency of this application without specific additional authorization.

Date: August 28, 2003

Signature:

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